

Raise Mowing Height to 3"



U of M Mowing-Height Study
photo by: Mary Meyer

Category 1: Minimum Input, Sunny Location

- Generally will not be watered.
- Will be fertilized once per year or less.
- Will be mowed no more than once per week.
- Where a more drought-tolerant lawn is desired.

Grass Mix: Mixture of 50 to 60% common type Kentucky bluegrasses and 40 to 50% fine fescue. Include at least two varieties from Aquila, Monopoly, Nassau, Newport, Nugget, Park, Ram I, Rugby, South Dakota Certified, Sydsport, Touchdown, or other common Kentucky bluegrass. One or two varieties of fine fescue (sometimes listed on the seed label as creeping red fescue, Chewings fescue, or hard fescue) should also be included.

Category 2: Minimum Input, Partially Shady Location

Inputs as in Category 1.

Grass Mix: Seed with mixture of about 60% fine fescue grasses and 40% shade tolerant Kentucky bluegrass. Some of the better shade tolerant Kentucky bluegrass varieties for Minnesota include Eclipse, Glade, Touchdown, Ram I, Nugget, and Sydsport.

UofM Extension,
Mugas & Pedersen

No Mow Lawn Mix (blend of fine fescues)

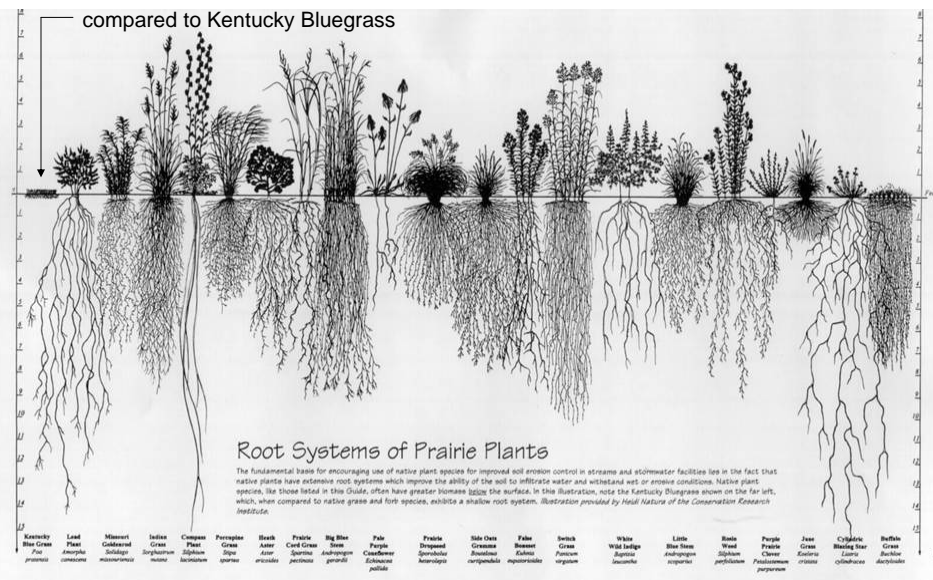


Prairie Nursery

www.prairienursery.com

Roots of Native Prairie Plants

compared to Kentucky Bluegrass



Conservation Research Institute



Native Turfgrass Demonstration

McCrary Gardens – SDSU / Brookings





TORO Count on it.

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Blue Stripe™ Drip

Growers and landscapers around the world recognize Toro® Blue Stripe™ Drip as the number one selling

Blue Stripe Drip Installation for Trees, Shrubs and Flower Beds Using 1/2" Hose Method

1/2" Riser-Adapter x Tee

1/2" Hose

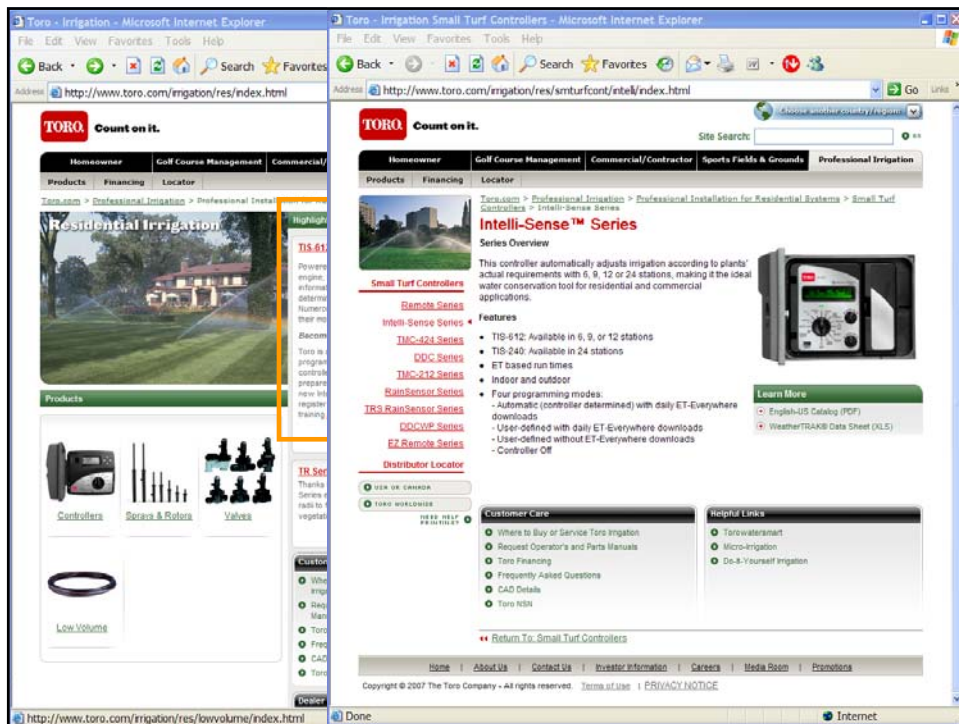
1/4" Tubing with Emitters

NGE® Emitter

1/2" Tie-Down Stake

Stream Jet Emitter with 12" MicroSpray Stake

With the wide selection of Blue Stripe™ Series and Emitters, your trees and shrubs



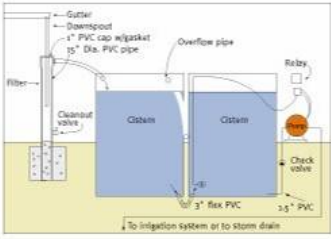




Diagram illustrating a rainwater harvesting system components and flow:

- Gutter
- Downspout
- 1" PVC cap w/gasket
- 1" dia. PVC pipe
- Overflow pipe
- Relay
- Check valve
- 3" flex PVC
- 1.5" PVC
- To irrigation system or to storm drain

Water Harvesting with Cisterns



Buried



Above-ground

3P Technik Australia
www.3ptechnik.com.au

Water Harvesting with Cisterns



Rendering of the Allen Park, Michigan Target store, which opened in October 2005. Rainwater will be captured using a rooftop cistern (shown on the right).

Source: Target Corporation

Plants' Preference for Specific Moisture Zones

(depth to water table, soil-type, organic-matter content)



Wet (w)

– saturated to moist soil, year round

Moist (um)

–moist (but not saturated) fertile soil

Dry (ud)

–dry, well drained soils

Plants' Preference for Specific Moisture Zones

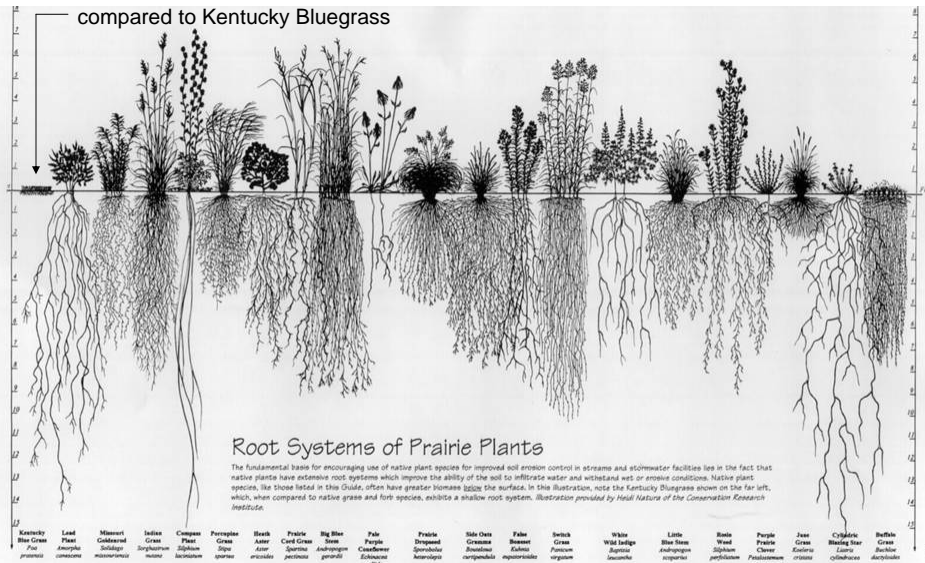
GRASSES & SEDGES

Name	Common Name	Height	Sun			Soil			Notes
			S	PS	Sh	W	-	M - D	
Andropogon gerardii	Big Bluestem Grass	8'	X	X	-	-	X	X X X	Warm
Bouteloua curtipendula	Side Oats Grama Grass	2'	X	X	-	-	-	X X X	Warm
Bromus kalmii	Kalm's Brome	3'	-	X	X	-	X	X X -	Cool
Carex bebbii	Bebb's Sedge	3'	X	-	-	-	X	X - -	Cool
Carex brevior	Plains Oval Sedge	1'	X	X	X	-	X	X X X	Cool
Carex interior	Prairie Star Sedge	2'	X	X	X	X	X	X X X	Cool
Carex sprengei	Sprengel's Sedge	2'	-	X	X	-	X	X X -	Cool
Carex tenera	Quill Sedge	3'	X	X	-	X	X	- -	Cool
Carex typhina	Cattail Sedge	2'	X	X	X	X	X	X - -	Cool
Carex woodii	Pretty Sedge	2'	X	X	X	-	X	X X -	Cool
Hystrix patula	Bottlebrush Grass	3'	-	X	-	-	-	X X -	Cool
Koeleria macrantha	June Grass	2'	X	-	-	-	-	X X X	Cool
Panicum oligosanthos	Scribner's Panic Grass	1'	X	X	-	-	-	X X X	Cool
Panicum virgatum	Switch Grass	4'	X	X	-	-	X	X X X	Warm
Schizachyrium scoparium	Little Bluestem Grass	3'	X	X	-	-	X	X X	Warm
Scirpus cyperinus	Woolgrass	5'	X	-	-	X	X	- -	Cool
Sorghastrum nutans	Indian Grass	6'	X	X	-	-	-	X X X	Warm
Sporobolus heterolepis	Prairie Dropseed Grass	3'	X	X	-	-	X	X X X	Warm
Stipa spartea	Needle Grass	4'	X	X	-	-	-	- X X	Cool (same prices as sedges)

www.kinninatives.com

Roots of Native Prairie Plants

compared to Kentucky Bluegrass



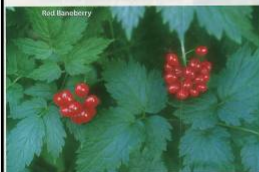
Conservation Research Institute

Plants for Shade to Semi-Shade

Select from these popular shade-loving natives to match your specific light conditions. Choose from those that prefer light shade to deep shade. Some will also grow in full sun. Be sure to check out our Woodland Seed Mix and Garden on page 6.



WHITE DOLLY'S EYES *Achillea millefolium* - Plants Only
Bright white berries and lush foliage make this plant a true woodland standout! Grows one to two feet tall. Plant with early-blooming woodland flowers to create a working interest! Requires a rich soil with plenty of humus. Hardy to Zone 4.



RED BANBERRY *Achillea millefolium* - Plants Only 36"
Creates Season-Long Interest in Your Woodlands
Bright red berries against deep green foliage makes this one of the showpieces of the woodland garden. While many woodland flowers go dormant by midsummer, Red Banberry provides interest all the way into the fall. Elegant white flower globes appear in spring and are attractive in their own right. Grows one to two feet tall in rich, well-drained soil in partial to full shade. One of the very best woodland plants for summer color and interest! Hardy to Zone 5.

34 Prairie Nursery



COLUMBINE *Aquilegia canadensis* - P
A Hummingbird Favorite
A woodland classic, Columbine is one of its kind. The appearance of the lush blue spring is a sure sign that winter is finally on its way out. The delicate red and yellow flowers for a few weeks after flowers are available. Prefers well-drained soil in dry, rocky soil in medium to bright shade. Plant in a rich, moist soil. Hardy to Zone 5.

"What beautifies your plant, I like the way you ship your"

Michael Jarrett
Staten Island, NY

JACK IN THE PULPIT *Trientalis americana*
A Best Seller of the Woodland
Who doesn't know and love this superb woodland plant? No woodland garden is complete without Jack. To a truly beautiful effect, plant in groups of five or more, one spot, after the classic spring flowers have gone by the height and berries that appear early autumn are as showy as any flower. It is adaptable. Jack in the Pulpit grows in almost any woodland soil, even in wet, swampy soil. Not recommended for dry, sandy soils. Grows one to two feet tall. Hardy to Zone 5.

Order Toll-Free 1-800-476-9453 Fax 0

Prairie Grasses & Sedges

INDIANGRASS *Sorghastrum nutans*
The silky soft, golden seedheads of Indiangrass impart a special beauty and drama to the prairie in autumn. Reaching five to seven feet tall, it makes a powerful late season statement in the landscape. Mix with Little Bluestem (this page) for a fabulous fall combination. An important member of our native prairies, Indiangrass grows readily on any well-drained soil, from dry sand to heavy clay. Grows best in full sun, but will tolerate very light shade. Hardy to Zone 4.

LITTLE BLUESTEM *Schizanthus nutans*
Uncomparable Fall Color!
Our best selling grass seed, for good reason. The blue-green foliage provides a great backdrop for the prairie flowers in summer, turning a striking crimson in fall. The fluffy silver seedheads add some real drama to the autumn landscape. A patch of Little Bluestem waving in the wind is truly a wondrous sight, resembling waves of the ocean on a bright and breezy fall day. A clump-forming grass, it combines nicely with prairie flowers. (Please see our Short Prairie Seed Mixes on p. 2.) Grows two to three feet tall in well-drained sand and loam and excels in dry sandy and rocky soils. Not recommended for heavy clay or damp soils. Plant in full sun for best results. Hardy to Zone 4.



46 Prairie Nursery

www. PrairieNursery.com



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Seed Mixes-> (23)

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- Clay Buster Prairie Mixes (2)
- Low Growing Prairie Mixes (2)
- Diverse Prairie Mixes (2)
- Butterfly Seed Mixes (2)
- Woodland Edge/ Savanna Mix (1)
- Deer Resistant Short Prairie Mix (2)
- Septic Prairie Mix (1)
- Erosion Control Prairie Mixes (2)
- Land Restoration Prairie Mixes (2)
- Wetland Seed Mixes-> (2)
- Amber Wave Prairie Grass Mixes (2)

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Deer Resistant Short Prairie for Medium Soil Seed Mix [60014] : \$65.00 : Prairie Nursery On-Line - Micro...

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Address http://prairienursery.com/store/index.php?main_page=main_product_seed_mix_info&path=13_17 Go

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Deer Resistant Short Prairie for Medium Soil Seed Mix

Coverage Weight Price:
 1,000 sq. ft. 1/4 lb. \$65.00

Item 50054
 Add to Cart
 add to cart

The plants in these mixes have been selected for their lack of palatability to deer. If they are hungry enough, deer will eat almost anything, but these are among their least favorite foods.

For well-drained loam, sandy loam and clay loam soils.

Contains at least 12 wildflowers and 2 grasses.

To order quantities other than shown in drop-down menu, simply indicate so in "Special Instructions/Comments" at check out.

Wildflowers:

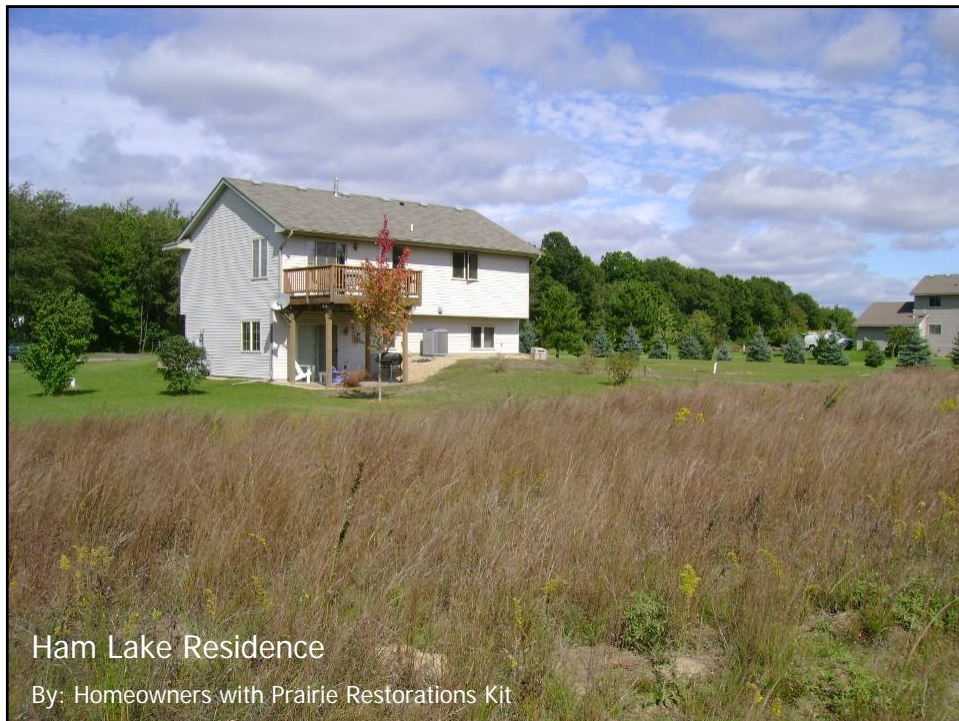
Lavender Hyssop, Nodding Pink Onion, Butterflyweed for Clay, Canada Milk Vetch, Lanceleaf Coneopsis, Shootingstar, Pale Purple Coneflower, Purple Coneflower, Rattlesnake Master, Roundhead Bushclover, Meadow Blazingstar, Prairie Blazingstar, Wild Quinine, Smooth Penstemon, Great Solomon's Seal, Black Eyed Susan, Ohio Goldenrod, Stiff Goldenrod

Grasses:

Sideoats Grama, Little Bluestem, Prairie Dropseed







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(depth to water table, soil-type, organic-matter content)



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Moist (um)

–moist (but not saturated) fertile soil

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GRASSES & SEDGES

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Carex typhina	Cattail Sedge	2'	X	X	X	X	X	X - -	Cool
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Koeleria macrantha	June Grass	2'	X	-	-	-	-	X X X	Cool
Panicum oligosanthos	Scribner's Panic Grass	1'	X	X	-	-	-	X X X	Cool
Panicum virgatum	Switch Grass	4'	X	X	-	-	X	X X X	Warm
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Scirpus cyperinus	Woolgrass	5'	X	-	-	X	X	- -	Cool
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Sporobolus heterolepis	Prairie Dropseed Grass	3'	X	X	-	-	X	X X X	Warm
Stipa spartea	Needle Grass	4'	X	X	-	-	-	- X X	Cool (same prices as sedges)

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PLANT SELECTOR

Use this tool to help choose the best native plants for your particular situation. Choose as many of the criteria as you want from the fields below and the plants matching your needs will be chosen from the total list.

Criteria

Purpose:

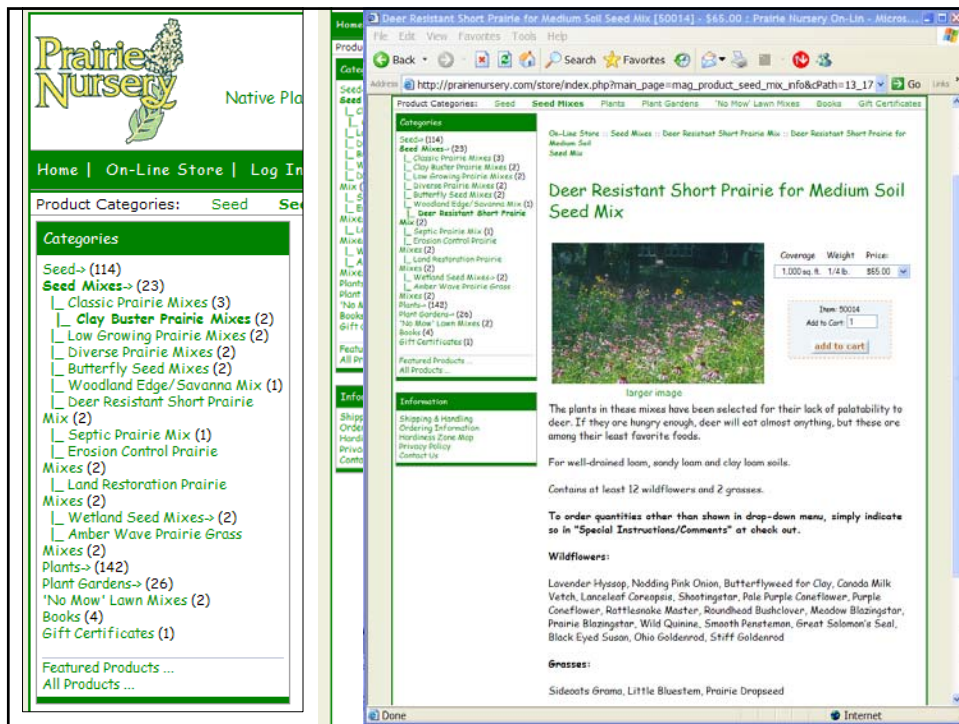
Type:

Environment: Soil Moisture: Sun Exposure:

☐ Dry ☐ Sun
☐ Medium ☐ Partial
☐ Wet ☐ Shade

Bloom: **Color:** **When:**

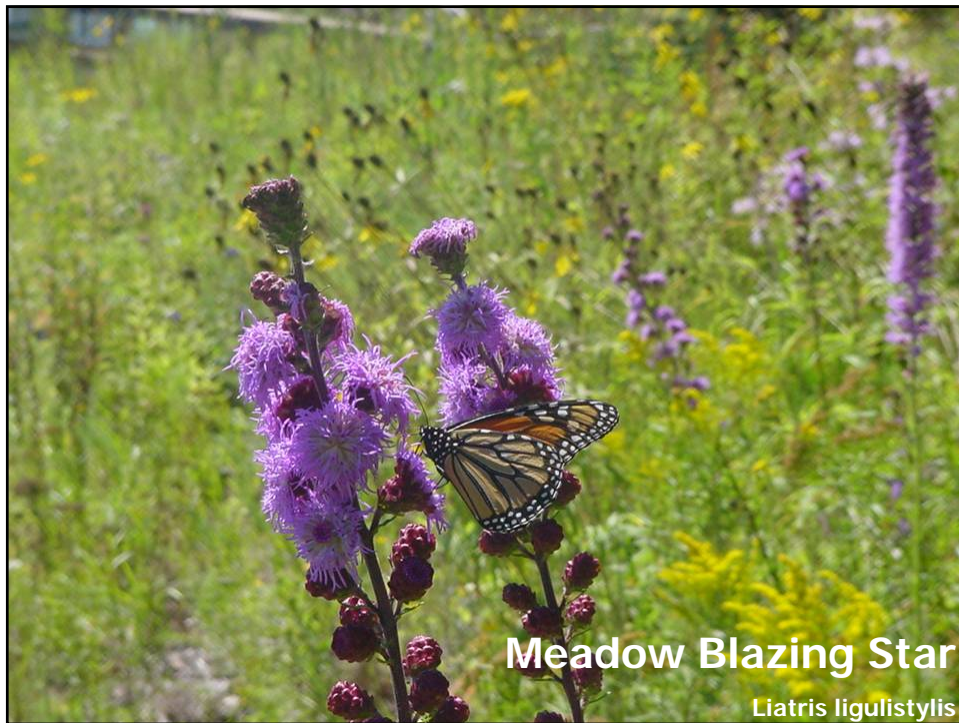
[Show All Plants](#)



Some Metro Area Native Plant Nurseries

	Retail	Wholesale	Trees	Shrubs	Ferns	Upland	Wetland Edge	Aquatic	Seed
Dragonfly Gardens 491 State Highway 46 Amery, WI 54001 715-268-4666 www.dragonflygardens.net	x		6" Pot	Plug 4.5" Pot 6" Pot	6" pot	Plug 4.5" Pot	Plug	Plug	
Hild & Associates 326 Glover Road S River Falls, WI 54022 715-426-5131 www.hildnatives.com		x			6" Pot	Plug 2.25" Pot 4" Pot	Plug 2.25" Pot 4" Pot	2.25" Pot 4" Pot	x
Landscape Alternatives 25316 St. Croix Trail (Hwy 95) Shafter, MN 55074 651-257-4460 www.landscapealternatives.com	x	x		1 Gal	4" Pot 6" Pot	Plug 2.5" Pot 4" Pot 6" Pot	Plug 2.5" Pot 4" Pot		
Natural Shore Technologies 6375 Pagenkopf Road Maple Plain, MN 55359 612-703-7581 www.naturalshore.com	x	x					Plug (2") 4" Pot	4" Pot	
North American Prairies 11754 Jarvis Ave Annandale, MN 55302 320-274-5316 www.nothisamericanprairies.com	x	x	1 Gal 2 Gal 3 Gal 5 Gal 10 Gal	1 Gal 2 Gal 3 Gal 5 Gal 10 Gal		Plug 1 Gal	Plug 1 Gal	Plug 1 Gal	x
Out Back Nursery 15280 110th St S Hastings, MN 55033 651-438-2771 www.outbacknursery.com	x		2 Gal 5 Gal 7 Gal 10 Gal	2 Gal 5 Gal	1 Gal	1 Gal	1 Gal		
Prairie Moon Nursery Route 3 Box 163 Winona, MN 55987-9515 507-452-1362 www.prairiemoonnursery.com	x		Bare Root	Bare Root	Bare Root	Bare Root	Bare Root	Bare Root	x





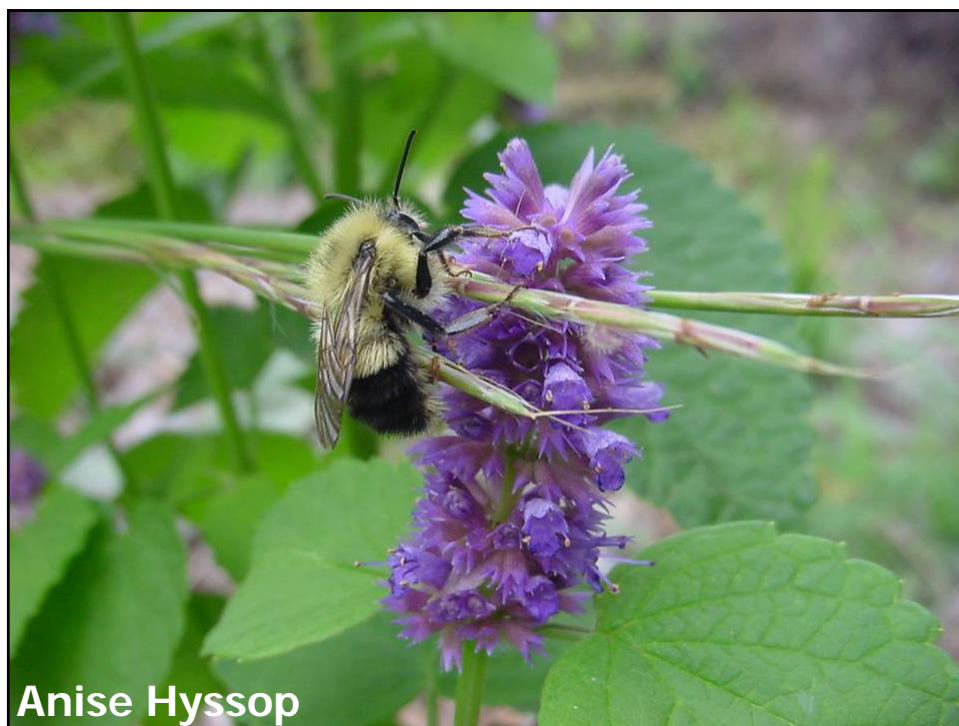
Golden Alexanders

Zizia aurea



Black-eyed Susan

Rudbeckia hirta



Anise Hyssop



Stiff Goldenrod

Solidago rigida





Butterfly Milkweed

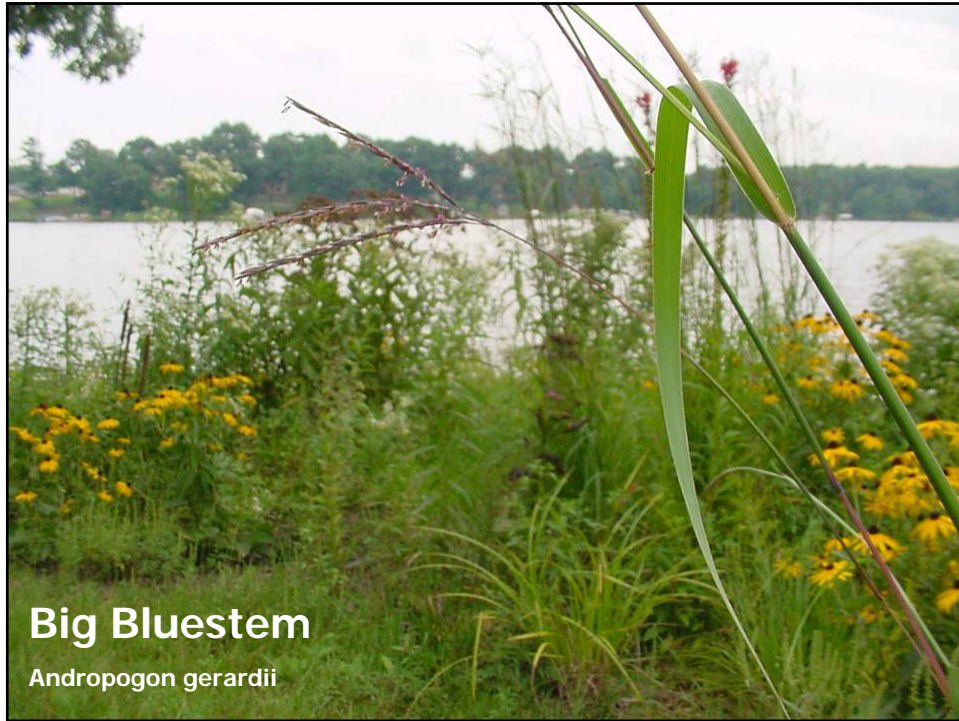


Fox Sedge
Carex vulpinoidea

Height: 18-30"

Light: Sun

Location: Bottom - Middle



Big Bluestem

Andropogon gerardii



Big Bluestem

Andropogon gerardii

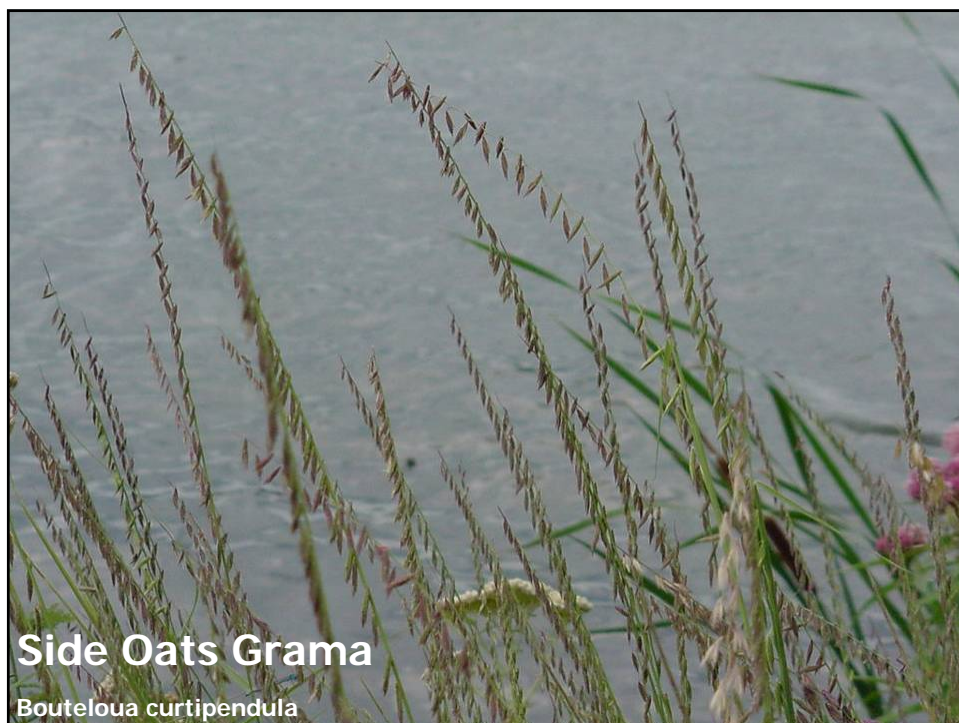
Indian Grass

Sorghastrum nutans

Canada Wild Rye

Elymus canadensis





Canada Anemone

Anemone canadensis



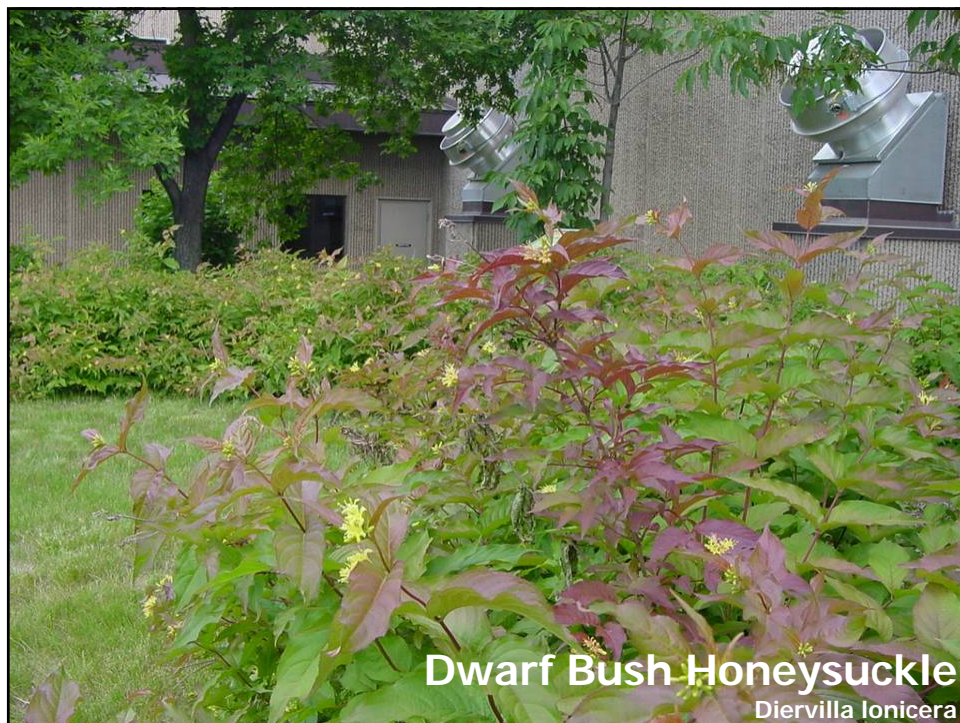


Jack in the Pulpit

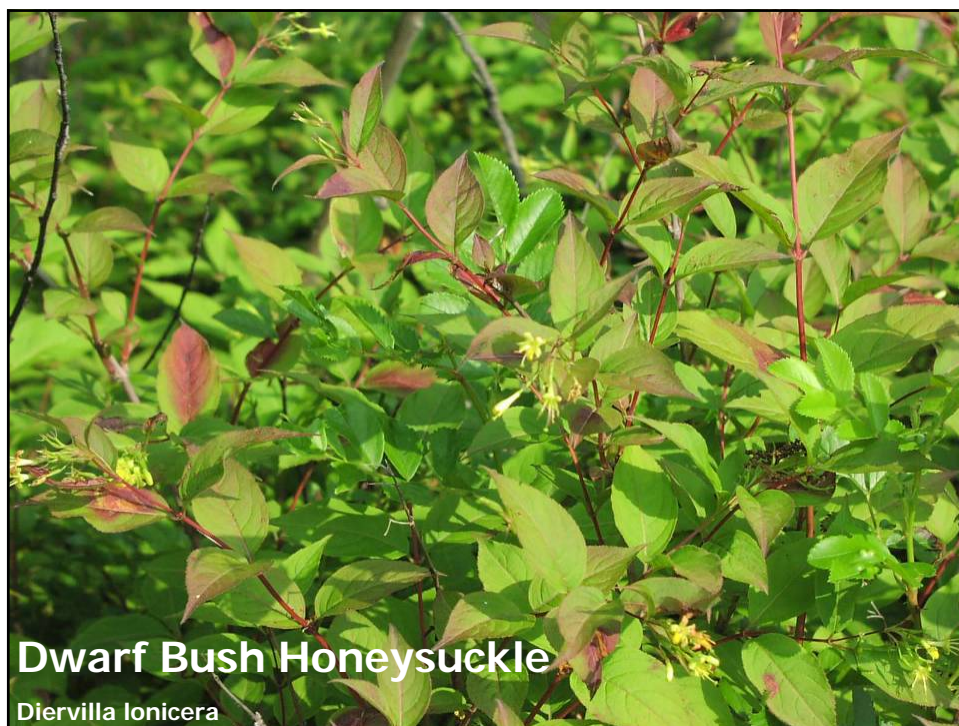
Arisaema triphyllum

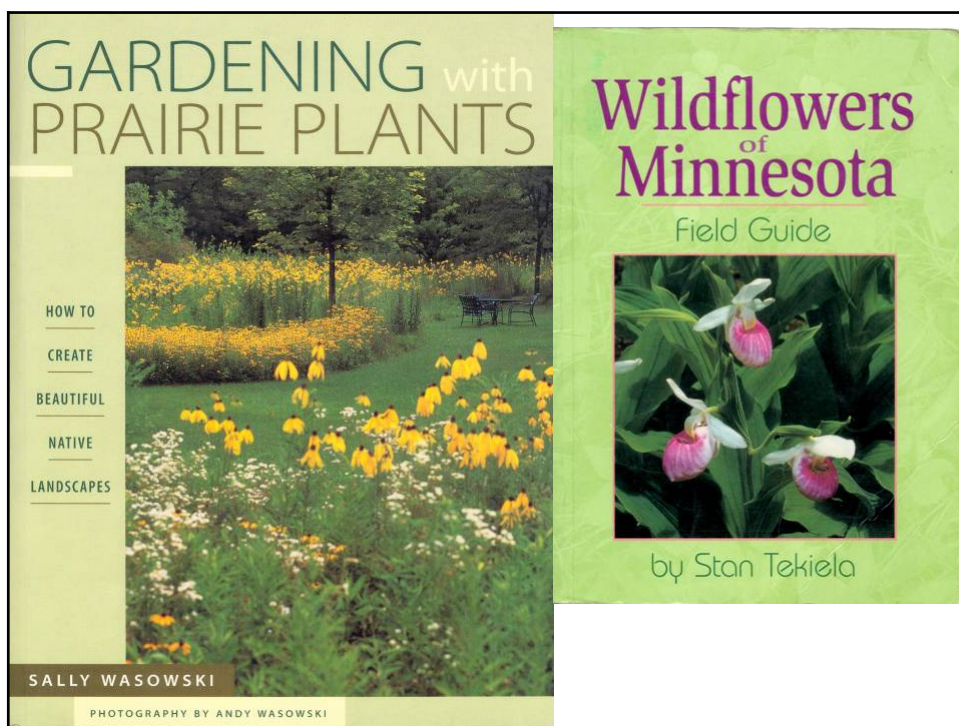


Bloodroot
Sanguinaria canadensis



Dwarf Bush Honeysuckle
Diervilla lonicera







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Urban Conservation Specialist
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Funding, oversight and guidance:

Association of Metropolitan Soil and Water Conservation Districts

Anoka – Carver – Dakota – Hennepin
Ramsey – Scott – Washington

Additional program funding (through Contribution Agreement):



U.S. Department of Agriculture
Natural Resources Conservation Service